

PATENT APPLICATION FEE DETERMINATION RECORD
Effective October 1, 2000

Application or Docket Number

CLAIMS AS FILED - PART I

(Column 1) (Column 2)

TOTAL CLAIMS	26	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	26 minus 20= *	6
INDEPENDENT CLAIMS	2 minus 3 = *	0
MULTIPLE DEPENDENT CLAIM PRESENT	<input type="checkbox"/>	

SMALL ENTITY
TYPE

OTHER THAN
SMALL ENTITY
OR

RATE	Fee
BASIC FEE	355.00
X\$ 9=	54
X40=	
+135=	
TOTAL	409

RATE	Fee
BASIC FEE	710.00
X\$18=	
X80=	
+270=	
TOTAL	

* If the difference in column 1 is less than zero, enter "0" in column 2

CLAIMS AS AMENDED - PART II

(Column 1) (Column 2) (Column 3)

AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM	<input type="checkbox"/>			

SMALL ENTITY OR OTHER THAN
SMALL ENTITY

RATE	ADDI- TIONAL FEE
X\$ 9=	
X40=	
+135=	
TOTAL ADDT. FEE	

RATE	ADDI- TIONAL FEE
X\$18=	
X80=	
+270=	
TOTAL ADDT. FEE	

AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM	<input type="checkbox"/>			

RATE	ADDI- TIONAL FEE
X\$ 9=	
X40=	
+135=	
TOTAL ADDT. FEE	

RATE	ADDI- TIONAL FEE
X\$18=	
X80=	
+270=	
TOTAL ADDT. FEE	

AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM	<input type="checkbox"/>			

RATE	ADDI- TIONAL FEE
X\$ 9=	
X40=	
+135=	
TOTAL ADDT. FEE	

RATE	ADDI- TIONAL FEE
X\$18=	
X80=	
+270=	
TOTAL ADDT. FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Claim 4

Apparatus according to Claim 3, wherein the unequal ion flow is obtained by partial closing of one of the rows of shutters.

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Claim 5

Method for frequency adjustment of piezoelectric resonators by ion etching in

a

vacuum chamber, based on

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holding the resonators in a tray of columns and rows,

facing the resonators with an ion gun having a race-track shaped beam pattern including two straight-track beam portions,

aligning two rows of resonators with the two straight-track portions of the ion beam,

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controlling the ion flow to the resonators,

monitoring the frequency of the exposed resonators and cutting off the ion flow when the resonators reach predetermined target values,

stepping the tray to the next row of resonators and repeating the adjustment process.

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Claim 6

Method according to Claim 5, based on controlling the ion flow by means of shutters.

Claim 7

25

Method according to Claim 5, based on making the ion flow to one of the rows of resonators smaller than to the other.

Claim 8

Method according to Claim 7, based on reducing the ion flow to one of the rows of resonators by partially closing the interposed row of shutters.